



ATTACHMENT I – General Qualifications

ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP015-00004729

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

(If a firm has branch offices, complete for each specific branch office seeking work.)

1. Annual Request for Qualifications

| | |
|---|---|
| a. FIRM (OR BRANCH OFFICE) NAME: | Olsson Associates |
| b. FIRM (OR BRANCH OFFICE) STREET: | 7250 North 16 th Street, Suite 210 |
| c. FIRM (OR BRANCH OFFICE) CITY: | Phoenix |
| d. FIRM (OR BRANCH OFFICE) STATE: | Arizona |
| e. FIRM (OR BRANCH OFFICE) ZIP CODE: | 85020 |
| f. YEAR ESTABLISHED: | Phoenix Branch: 1999 |
| (g1). OWNERSHIP - TYPE: | Corporation |
| (g2) OWNERSHIP - SMALL BUSINESS STATUS: | None |
| h. POINT OF CONTACT NAME AND TITLE: | Len Swartz, PE, LEED AP BD+C Office Leader |
| i. POINT OF CONTACT TELEPHONE NUMBER: | 602-748-1000 |
| j. POINT OF CONTACT E-MAIL ADDRESS: | lswartz@olssonassociates.com |
| k. NAME OF FIRM (If block 1a is a branch office): | Olsson Associates |



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1. Annual Request for Qualifications

| | |
|--------------------------------------|---------------------------------|
| g. FIRM (OR BRANCH OFFICE) NAME: | Olsson Associates |
| h. FIRM (OR BRANCH OFFICE) STREET: | 1110 South Dobson Road, Suite 4 |
| i. FIRM (OR BRANCH OFFICE) CITY: | Chandler |
| j. FIRM (OR BRANCH OFFICE) STATE: | Arizona |
| k. FIRM (OR BRANCH OFFICE) ZIP CODE: | 85286 |

| | |
|----------------------|-----------------------|
| l. YEAR ESTABLISHED: | Chandler Branch: 2008 |
|----------------------|-----------------------|

| | |
|--|-------------|
| (g1). OWNERSHIP - TYPE: | Corporation |
| (g2). OWNERSHIP - SMALL BUSINESS STATUS: | None |

| | |
|---------------------------------------|---|
| h. POINT OF CONTACT NAME AND TITLE: | Len Swartz, PE, LEED AP BD+C Office Leader |
| i. POINT OF CONTACT TELEPHONE NUMBER: | 602-748-1000 |
| j. POINT OF CONTACT E-MAIL ADDRESS: | lswartz@olssonassociates.com |

| | |
|---|-------------------|
| k. NAME OF FIRM (If block 1a is a branch office): | Olsson Associates |
|---|-------------------|



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2. EMPLOYEES BY DISCIPLINE

| a. Discipline Title | b. Function: Primary (P) or Secondary (S) | c. No. of Employees - Firm | d. No. of Employees - Branch |
|---------------------------|---|----------------------------|------------------------------|
| Biologists | P | 15 | |
| CADD Technicians | P | 104 | 5 |
| Civil Engineers | P | 86 | 2 |
| Construction Managers | P | 13 | |
| Construction Inspectors | P | 4 | |
| Electrical Engineers | P | 15 | |
| Environmental Engineers | P | 7 | |
| Environmental Scientists | P | 42 | |
| Geologists | P | 10 | |
| Hydrologists | P | 1 | |
| Landscape Architects | P | 10 | 2 |
| Mechanical Engineers | P | 8 | |
| Sanitary Engineers | P | 13 | |
| Soils Engineers | P | 13 | |
| Structural Engineers | P | 19 | |
| Technicians/Analysts | P | 115 | 1 |
| Transportation Engineers | P | 53 | 2 |
| Water Resources Engineers | P | 36 | 5 |
| Other | P | 287 | 6 |
| | | | |
| | | | |
| | | | |
| | | | |
| Total | | 851 | 23 |



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3. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST YEAR

| a. Approximate No. of Projects | b. Experience | c. Revenue Index Number (see below) |
|--------------------------------|---|-------------------------------------|
| 6 | Airports; Navaids; Airport Lighting; Aircraft Fueling | 5 |
| 8 | Airports; Terminals; & Hangars; Freight Handling | 4 |
| 46 | Bridge Design: Bridges | 6 |
| 78 | Commercial Building (Low Rise; Shopping Centers) | 6 |
| 35 | Construction Management | 6 |
| 30 | Construction Surveying | 1 |
| 9 | Design-Build - Preparation of Requests for Proposals | 2 |
| 21 | Education Facilities; Classrooms | 4 |
| 43 | EIS, Assessments or Statements | 5 |
| 23 | Electrical Studies and Design | 6 |
| 103 | Environmental Impact Studies, Assessments or Statements | 7 |
| 35 | Highways; Streets; Airfield Paving; Parking Lots | 6 |
| 36 | Housing (Residential, Multi-Family; Apartments; Condominiums) | 6 |
| 12 | Industrial Buildings; Manufacturing Plants | 4 |
| 10 | Intelligent Transportation Systems | 5 |
| 11 | Irrigation; Drainage | 3 |
| 76 | Land Surveying | 5 |
| 43 | Landscape Architecture | 4 |
| 7 | Lighting (Exteriors; Streets; Memorials; Athletic Fields, Etc.) | 1 |
| 130 | Anti-Terrorism/Force Protection Area Master Planning Auditoriums and Theaters | 7 |
| 9 | Product, Machine Equipment Design Pneumatic Structures, Air-Support Buildings Power Generation, Transmission, Distribution Public Safety Facilities | 2 |
| 14 | Railroad, Rapid Transit | 6 |
| 9 | Recreation Facilities (Parks, Marinas, Etc.) | 5 |
| 19 | Sewage Collection, Treatment, Disposal | 4 |
| 51 | Soils and Geologic Studies; Foundations | 4 |



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| | | |
|-----|---|---|
| 70 | Surveying; Platting; Mapping; Flood Plain Studies | 5 |
| 28 | Storm Water Handling and Facilities | 5 |
| 16 | Structural Design; Special Structures | 3 |
| 114 | Testing and Inspection Services | 6 |
| 51 | Traffic and Transportation Engineering | 7 |
| 19 | Urban Renewals; Community Development | 3 |
| 153 | Water Resources, Hydrology; Ground Water | 6 |
| 31 | Water Supply; Treatment and Distribution | 5 |
| 6 | Zoning; Land Use Studies | 2 |

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- | | |
|---|---|
| 1. Less than \$100,000 | 6. \$2 million to less than \$5 million |
| 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million |
| 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million |
| 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million |
| 5. \$1 million to less than \$2 million | 10. \$50 million or greater |



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

| | | | |
|--|--|--|----------------------------------|
| a. NAME Len Swartz, PE, LEED, AP BD+C | b. ROLE IN THIS CONTRACT Civil Engineer, Project Engineer | c. YEARS EXPERIENCE | |
| | | 1. TOTAL 16 Years | 2. WITH CURRENT FIRM 16 Years |
| d. LOCATION (City and State) Olsson Associates; Phoenix Arizona | | | |
| e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Civil Engineering, University of Nebraska-Lincoln, 1999 | | f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer, Arizona #42245 | |
| g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Affiliations: US Green Building council, USGBC< Arizona council of Engineering Companies, ACEC | | | |

H. RELEVANT PROJECTS

| | | | |
|----|---|-------------------------------------|---|
| 1. | (1) TITLE AND LOCATION (City and State) Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2014 | Construction (if applicable) February 2014 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project manager for design services to realign and pave seven local and collector streets, approximately 4.9 miles, throughout the Yavapai Nation. Existing road widths of 28' to 34' and road profiles were maintained to minimize the disturbance of existing vegetation and drainage patterns. The roads were covered with a pavement structural section consisting of 6" of aggregate base and 3" of asphalt. Drainage improvements consist new pipe culverts at select locations and at-grade water crossings that are treated at the roadway edge with riprap to prevent scour. Existing signs are brought to current reflectivity standards and stripes were painted on the new asphalt pavement. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION (City and State) Bicycle and Pedestrian Bridge Children's Museum-Arizona Center; Phoenix, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Olsson worked with the Maricopa Association of Governments (MAG) and the City of Phoenix on a project assessment to study and evaluate the crossing of 7th Street between Van Buren and Washington Street located within the urban core of downtown Phoenix. The project provided key linkages to several downtown destinations including the Children's Museum of Phoenix with the Arizona Science Center as well as historic Heritage Square, Copper Square, and the downtown sporting venues. Olsson as the prime consultant provided public involvement, civil engineering, structural engineering and landscape architecture design services. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION (City and State) Arizona State University North Campus Improvements; Tempe, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE In need of a functional facelift for new student recruitment, ASU selected Olsson as the prime to provide master planning and design services to complete site improvements for the 28-acre north campus area. Olsson as the prime consultant provided landscape architecture, surveying, civil engineering, traffic engineering, and electrical engineering design services. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION (City and State) Prasada Development; Surprise, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Olsson provided the design of 6.5 miles of public infrastructure roadways as part of the Prasada development located in Surprise, Arizona. Sewer, water and drainage improvements were included for most of the roadways serving the Prasada development area. Olsson provided the following civil engineering services: grading and drainage, paving, roadway design, water and sanitary sewer design, as well as traffic engineering including signing and striping and traffic signal design. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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| | | | |
|----|---|-------------------------------------|--|
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i> Scottsdale Fashion Square Phase II; Scottsdale, AZ | (2) YEAR COMPLETED | |
| | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Olsson provide civil engineering design services which included infrastructure, roadway, paving and grading design. Several key challenges included utilization of existing infrastructure with new utilities. This infill project included sensitivity to existing Facilities and buildings. | Professional Services 2013 | Construction (if applicable) N/A |
| | | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

| | | | |
|---|---|--|---------------------------------|
| a. NAME Rod Penniman, PE | b. ROLE IN THIS CONTRACT Civil Engineer, Project Manager | c. YEARS EXPERIENCE | |
| | | 1. TOTAL 29 Years | 2. WITH CURRENT FIRM 2 Years |
| d. LOCATION (<i>City and State</i>) Olsson Associates; Phoenix Arizona | | | |
| e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Science, Civil Engineering, Rochester Institute of Technology, 1985 | | f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer, Arizona #31628 Civil Engineer, New York #072203 | |
| g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) Affiliations: American Society of Civil Engineers; American Public Works Association; Project Management Institute | | | |

H. RELEVANT PROJECTS

| | | | |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION (<i>City and State</i>) Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2014 | Construction (if applicable) 2015 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project manager responsible for the preparing construction documents for approximately 2 miles of canal path from Chaparral Road to Indian Bend Wash. The improvements consist of new 10 ft. multi-use concrete path, AC pavement curb, gutter, sidewalk, ADA ramps, stamped asphalt medians, and two 14 ft. wide pedestrian bridges. Traffic components will include traffic signing, pavement marking, and two new "HAWK" signals. Addition work includes pedestrian lighting relocation and miscellaneous removals. Construction Cost: \$2,400,000 | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION (<i>City and State</i>) Various Locations ARRA Pavement Preservation; Gila River Indian Community, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2010 | Construction (if applicable) 2011 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project manager responsible for pavement preservation on Pecos Rd between 51st Avenue and Tashquith Drive, approximately 0.8 miles; Elliot Road between 75th Avenue and San Juan Avenue, approximately 1.6 miles; and Estrella Drive between 67th Avenue and San Juan Avenue, approximately 1.5 miles. The project was scoped, designed and constructed using federal funds as part of the American Recovery and Reinvestment Act (ARRA). The work includes utility and stakeholder coordination, asphalt milling and paving, asphalt overlay, shoulder build-up, and pavement marking and signing. Construction Cost: \$416,000 | <input type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION (<i>City and State</i>) Yuma Road ARRA Pavement Preservation; Goodyear, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2010 | Construction (if applicable) 2011 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project manager responsible for the City of Goodyear's pavement preservation on Yuma Road between Goodyear Boulevard and Litchfield Road, approximately one mile. The project was scoped, designed and constructed using federal funds as part of the ARRA. The work includes cold-in-place recycle, asphalt concrete (AC) overlay, AC milling and replacement, adjustment of manholes and water valves, and pavement marking and signing. Construction Cost: \$515,000 | <input type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION (<i>City and State</i>) Various Locations Asphalt Concrete Mill & Overlay; Peoria, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2010 | Construction (if applicable) 2011 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project manager responsible for pavement preservation on various road segments in the City of Peoria, which includes Beardsley Rd between 83rd Avenue and 99th Avenue, approximately 2 miles; 91st Avenue between Union Hills Drive and Village Parkway, approximately 0.5 miles; Lake Pleasant Road between Beardsley Road and Rose Garden, approximately 0.5 miles. The project was scoped, designed and constructed using federal funds as part of the ARRA. The work includes AC milling and overlay, pavement markings and signing. Construction Cost: \$1,500,000 | <input type="checkbox"/> | Check if project performed with current firm |



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| | | | |
|---|---|-------------------------------|--------------------------------------|
| 5. | (1) TITLE AND LOCATION (<i>City and State</i>) Indian School Road/EI Mirage Road Intersection Improvements; Avondale, AZ | (2) YEAR COMPLETED | |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project manager responsible for the design to widen the intersection which included pavement widening to accommodate turn lanes, new traffic signal, drainage and grading, driveway improvements, new bus bay, utility coordination, signing and striping. Construction Cost: \$500,000 | Professional Services 2008 | Construction (if applicable) 2009 |
| <input type="checkbox"/> Check if project performed with current firm | | | |



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

| | | | |
|---|--|---|---------------------------------|
| a. NAME Dave Jensen, PE, CFM | b. ROLE IN THIS CONTRACT Civil Engineer | c. YEARS EXPERIENCE | |
| | | 1. TOTAL 21 Years | 2. WITH CURRENT FIRM 9 Years |
| d. LOCATION (City and State) Olsson Associates; Chandler, Arizona | | | |
| e. EDUCATION (DEGREE AND SPECIALIZATION) Masters of Science, Civil Engineering, Brigham Young University, 1998 Bachelor of Science, Civil Engineering, Brigham Young University, 1996 | | f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer, Arizona # 36852 | |
| g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Affiliations: American Public Works Association, Association of State Dam Safety Officials, Arizona Floodplain Managers Association | | | |

H. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (City and State) | (2) YEAR COMPLETED | |
|----|--|-------------------------------------|--|
| | | Professional Services | Construction (if applicable) |
| 1. | Papago Park Dams Assessment; Phoenix, AZ | 2013 | N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Dave led the completion of a dam-break analysis and downstream inundation analysis for all dams in series and mapped the downstream inundation areas to understand the downstream hazards posed by the dams. Participated in and completed the documentation of a qualitative risk assessment through a failure modes analysis to understand the potential risks associated with the dams. Current tasks include a detailed risk assessment, risk analysis, a threat and vulnerability assessment, an update of the dam-breach modeling to include new survey data and stormwater overtopping, and a detailed hazard assessment using FEMA guidelines based on the fact that 1.5-million people visit the park each year. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | Sonoqui Wash Channelization Phase II, Queen Creek, AZ | 2012 | 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The Flood Control District of Maricopa County (the District) is in the process of design and construction of a three phase Sonoqui Wash Channelization, a regional drainage solution that will benefit thousands of land owners in the Southeast Phoenix Metropolitan Valley. As part of a multidisciplinary team, Olsson Associates was responsible for providing context sensitive planning and design services to take advantage of multi-use opportunities. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ | 2014 | 2015 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Olsson as the prime consultant is providing master planning and design services for this two mile shared use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | Little Dreamy Draw Dam Hydrologic/Hydraulic Analysis; Phoenix, AZ | 2012 | N/A |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the development of PMP hydrologic analysis, reservoir routing, dam breach analysis, and downstream inundation mapping for a dam in urban Phoenix. Developed a hydrologic model of the watershed contributing to the dam, completed a dam breach analysis for various scenarios, and mapped the downstream inundation area using unsteady HEC-RAS. | <input type="checkbox"/> | Check if project performed with current firm |



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| 5. | (1) TITLE AND LOCATION (<i>City and State</i>) Neighborhood Drainage Flood Mitigation Study; Apache Junction; AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2012 | Professional Services 2012 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Manager for the assessment and mitigation of flooding issues in various neighborhoods for the City of Apache Junction. Completed alternatives analysis and developed concept plans and cost estimates for the recommended plan. | <input type="checkbox"/> Check if project performed with current firm | |



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

| | | | |
|---|--|--|---------------------------------|
| a. NAME Duc Dao, PE, CFM | b. ROLE IN THIS CONTRACT Civil Engineer, Project Engineer | c. YEARS EXPERIENCE | |
| | | 1. TOTAL 21 Years | 2. WITH CURRENT FIRM 9 Years |
| d. LOCATION (<i>City and State</i>) Olsson Associates; Phoenix Arizona | | | |
| e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Science, Civil Engineering, University of California-Irvine, 1997 | | f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer, Arizona #37849 | |
| g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) Affiliations: Arizona Council of Engineering Companies, ACEC | | | |

H. RELEVANT PROJECTS

| | | | |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION (<i>City and State</i>) Lafayette Interceptor Drain and Outlet Facility, Arizona Canal to 44th Street; Phoenix, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) 2014 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project engineer responsible for the preparation of all the construction plans, cost estimate, project specifications, and design report for the project, and the hydrologic and hydraulic evaluation analysis of the watershed and drainage system. The storm drain traversed through an affluent residential neighborhood and through busy business areas, and design considerations were made to address resident and business concerns. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION (<i>City and State</i>) Old Cross Cut Canal Improvements, Indian School Road to Arizona Canal; Phoenix, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2012 | Construction (if applicable) 2013 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project engineer for 500 linear feet of a dual storm drain system consisting of 120-inch cast-in-place pipe and 102" RGRCP. While this project is short in length, there were many challenging design constraints, including crossing of the Arizona Canal, maintenance of traffic, relocation of power transmission lines, and protection of historical features within the storm drain alignment. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION (<i>City and State</i>) Sonoqui Wash Channelization Phase III; Queen Creek, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2012 | Construction (if applicable) 2013 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE The Flood Control District of Maricopa County (the District) is in the process of design and construction of a three phase Sonoqui Wash Channelization, a regional drainage solution that will benefit thousands of land owners in the Southeast Phoenix Metropolitan Valley. Project engineer, part of a multidisciplinary team, responsible for providing context sensitive planning and design services to take advantage of multi-use opportunities. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION (<i>City and State</i>) Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2014 | Construction (if applicable) 2015 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Drainage engineer for this two mile shared use pathway segment completing the City's 14 mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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|----|--|-------------------------------------|--|
| 5. | (1) TITLE AND LOCATION <i>(City and State)</i> Lafayette Interceptor Drain and Outlet Design; Phoenix, AZ | (2) YEAR COMPLETED | |
| | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Lead project engineer for the design of the Lafayette Interceptor Drain and Outlet project. This project is the second segment of the Flood Control District's Arcadia Area Drainage Improvements, a regional flood control project proposed to mitigate flooding upstream of the Arizona Canal in the Arcadia watershed area. | Professional Services 2013 | Construction (if applicable) 2014 |
| | | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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| | | | |
|---|--|---|---------------------------------|
| a. NAME Ron Szwiec, PE | b. ROLE IN THIS CONTRACT Civil Engineer, Project Engineer | c. YEARS EXPERIENCE | |
| | | 1. TOTAL 23 Years | 2. WITH CURRENT FIRM 2 Years |
| d. LOCATION (<i>City and State</i>) Olsson Associates; Chandler, Arizona | | | |
| e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Science, Civil Engineering, Michigan State University, 1991 | | f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer, Arizona # 33563 | |
| g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) Affiliations: Arizona Council of Engineering Companies, ACEC | | | |

H. RELEVANT PROJECTS

| | (1) TITLE AND LOCATION (<i>City and State</i>) | (2) YEAR COMPLETED | |
|----|--|--|------------------------------|
| | | Professional Services | Construction (if applicable) |
| 1. | Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ | 2014 | 2015 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Transportation quality control reviewer for this two-mile, shared-use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| 2. | Esperanza Boulevard/I-19 Bicycle and Pedestrian Enhancement; Tucson; AZ | 2013 | N/A |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE This Arizona Department of Transportation (ADOT) Transportation enhancement and Scenic Roads Section (TE) sponsored project, will provide new bicycle lanes, ADA-compliant pedestrian curb ramps, benches, and landscaping along both sides of Esperanza Boulevard from Abrego Drive to La Canada Drive. Ron served as transportation engineer for this transportation enhancement project. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| 3. | Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ | 2014 | February 2014 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Transportation project engineer for design services to realign and pave seven local and collector streets, approximately 4.9 miles, throughout the Yavapai Nation. Existing road widths of 28' to 34' and road profiles were maintained to minimize the disturbance of existing vegetation and drainage patterns. The roads were covered with a pavement structural section consisting of 6" of aggregate base and 3" of asphalt. Drainage improvements consist new pipe culverts at select locations and at-grade water crossings that are treated at the roadway edge with riprap to prevent scour. Existing signs are brought to current reflectivity standards and stripes were painted on the new asphalt pavement. | <input checked="" type="checkbox"/> Check if project performed with current firm | |
| 4. | 219th Avenue Paved Dirt Roads; Surprise, AZ | 2012 | 2013 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Transportation engineer for this transportation project. Olsson designed the Pave Dirt Roads West of 219th Avenue project consisting of 3.27 miles of local dirt roadways in Surprise. The Clean Air Act uses the National Ambient Air Quality Standards (non-attainment areas) to set limits on airborne particles smaller than 10-micrometers in diameter called PM-10. Paving these roads decreased the amount of PM-10 being produced by traffic on the roads. The project required environmental and cultural assessments, a design concept report, construction documents, project specifications, and a construction cost estimate. | <input checked="" type="checkbox"/> Check if project performed with current firm | |



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| | | | |
|----|---|-------------------------------|-------------------------------------|
| | (1) TITLE AND LOCATION <i>(City and State)</i> Ehrenberg I-10 Overpass Area Multi-use Pathway; Ehrenberg, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) N/A |
| 5. | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Transportation engineer for this transportation project. The improvements will bring the path into compliance with AASHTO standards. The length of the new path will be a total of 750 feet and will extend from the Frontage Rd. to the existing I-10 bridge walkway. The reconstruction and enhancement of the multi-use path will provide for greater connectivity between both the local communities and states by providing a safer and more accessible route for cycling and walking. Olsson is currently providing ADOT landscape architecture, survey and civil engineering design services. <input checked="" type="checkbox"/> Check if project performed with current firm | | |



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

| | | | |
|---|---|---|---------------------------------|
| a. NAME Kim Kleski, PLA, ASLA, LEED AP BC+D | b. ROLE IN THIS CONTRACT Project Landscape Architect / Project Manager | c. YEARS EXPERIENCE | |
| | | 1. TOTAL 14 Years | 2. WITH CURRENT FIRM 2 Years |
| d. LOCATION (<i>City and State</i>) Olsson Associates; Phoenix, Arizona | | | |
| e. EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) Bachelor of Landscape Architecture, Ohio State University, 1995 | | f. PROFESSIONAL TRAINING - REGISTRATIONS Professional Landscape Architect, Arizona # 36908 | |
| g. OTHER PROFESSIONAL QUALIFICATIONS (<i>Organizations, Awards, etc.</i>) Affiliations: American Society of Landscape Architects, ASLA; US Green Building Council, USGBC; Arizona Association for Economic Development | | | |

H. RELEVANT PROJECTS

| | | | |
|----|--|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION (<i>City and State</i>) Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2014 | Construction (if applicable) 2015 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project landscape architect for this two-mile, shared-use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. Olsson is providing public involvement, civil engineering, surveying, landscape architecture and electrical engineering for the City of Scottsdale. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION (<i>City and State</i>) Lake Havasu Phase II Landscape and Irrigation Enhancement; Lake Havasu City, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) N/A |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project landscape architect for Arizona Department of Transportation (ADOT) Transportation Enhancement and Scenic Roads Section (TE) sponsored project, which provides multi-use pathway improvements along SR95 from Mulberry Avenue to the Water Safety Center. Improvements include landscape and irrigation as well as site amenities along the one mile corridor. Olsson as the prime consultant is providing landscape architecture and survey for this transportation enhancement project. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION (<i>City and State</i>) Ehrenberg I-10 Overpass Multi-use Pathway; Ehrenberg, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) N/A |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project landscape architect for improvements that will bring the path into compliance with AASHTO standards. The length of the new path will be a total of 750 feet and will extend from the Frontage Rd. to the existing I-10 bridge walkway. The reconstruction and enhancement of the multi-use path will provide for greater connectivity between both the local communities and states by providing a safer and more accessible route for cycling and walking. Olsson is currently providing ADOT landscape architecture, survey and civil engineering design services. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION (<i>City and State</i>) Centennial Park; Chandler, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) 2014 |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project landscape architect for the 12-acre Centennial neighborhood park. The project includes a multi-use pathway, ramadas, volleyball and basketball courts, pedestrian lighting, and landscape and irrigation improvements. Olsson is providing landscape architecture, civil engineering, electrical engineering and survey design services. | <input checked="" type="checkbox"/> | Check if project performed with current firm |

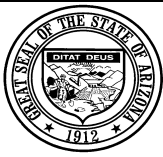


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| | | | |
|----|--|---|--------------------------------------|
| 5. | (1) TITLE AND LOCATION (<i>City and State</i>) Broadway Road / Avenida Rio Salado; Phoenix, AZ | (2) YEAR COMPLETED | |
| | (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Landscape architect, irrigation designer, public involvement coordination, artist coordination for this street improvement project included new sidewalks, bike lanes, landscaping and street lighting from Seventh St. to 51st Ave. Kim worked on the landscape design from concept to 75% CD's (10 months) October 1, 2012- August 22, 2013 while employed with Aztec Engineering. The project involved close coordination with local artists: Matt Moore and Mark Ryan. Other stakeholders included the City of Phoenix Parks, Streets, and Arts and Culture Departments. | Professional Services 2014 | Construction (if applicable) 2015 |
| | | <input type="checkbox"/> Check if project performed with current firm | |



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4. Resumes of Key Personnel Proposed for this Contract (Complete one Section 4 for each key person.)

| | | | |
|---|--|---|----------------------------------|
| a. NAME Ken Fairchild, PE | b. ROLE IN THIS CONTRACT Senior Electrical Engineer / Project Manager | c. YEARS EXPERIENCE | |
| | | 1. TOTAL 41 Years | 2. WITH CURRENT FIRM 40 Years |
| d. LOCATION (City and State) Olsson Associates; Lincoln, Nebraska | | | |
| e. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science, Electrical Engineering, University of Nebraska-Lincoln, 1972 | | f. PROFESSIONAL TRAINING - REGISTRATIONS Civil Engineer, Arizona # 34948 | |
| g. OTHER PROFESSIONAL QUALIFICATIONS (Organizations, Awards, etc.) Affiliations: Public Power Association | | | |

H. RELEVANT PROJECTS

| | | | |
|----|---|-------------------------------------|--|
| 1. | (1) TITLE AND LOCATION (City and State) Diablo Stadium Sports Field Lighting; Tempe, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2012 | Construction (if applicable) 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Olsson Associate's Non-Destructive Team (NDT) inspected all the poles at Diablo Stadium, the spring training home of the Anaheim Angels, in Tempe, AZ. The project provided 100/70 foot-candle levels in the field with a control scheme implemented to reduce the levels to 50/30 fc. Electrical task leader for dedicated "Maintenance" lighting system was designed to provide adequate lighting for after game cleanup without having the entire lighting system energized. Provided electrical engineering design services for this project. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 2. | (1) TITLE AND LOCATION (City and State) Athletic Field Lighting Improvements; Tempe, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2012 | Construction (if applicable) 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Electrical task leader for conducting a lighting evaluation study for the City of Tempe. The purpose of the study was to evaluate the major components of cost for the proposed athletic fields lighting improvements at the fifteen (15) City of Tempe (COT) parks and/or sports complexes all of which were in the 30 to 40 year old range. The prototype designs included photometric analysis, fixture count, and proposed pole locations. The evaluation also included capacity availability and physical inspection of the Service Entrance Section (SES) at each site. Olsson provided electrical engineering design services for this project. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 3. | (1) TITLE AND LOCATION (City and State) Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2014 | Construction (if applicable) 2013 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Electrical task leader for lighting design of this two-mile, shared-use pathway segment completing the City's 14-mile paved portion of the Sun Circle Trail. The project is utilizing Congestion Mitigation and Air Quality CMAQ federal funding. Project partners include SRP, ADOT, FCDMC and Scottsdale Public Art. | <input checked="" type="checkbox"/> | Check if project performed with current firm |
| 4. | (1) TITLE AND LOCATION (City and State) Centennial Park; Chandler, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) 2014 |
| | (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Electrical task leader for lighting design at this 12-acre Centennial neighborhood park. The project includes a multi-use pathway, ramadas, volleyball and basketball courts, pedestrian lighting, and landscape and irrigation improvements. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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| | | | |
|----|--|-------------------------------------|--|
| | (1) TITLE AND LOCATION <i>(City and State)</i> Roadrunner Park; Chandler, AZ | (2) YEAR COMPLETED | |
| | | Professional Services 2013 | Construction (if applicable) 2014 |
| 5. | (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Electrical task leader for lighting design at this new neighborhood park. Olsson provided expertise in landscape architecture, civil and electrical engineering. The 10.6 acre park is nestled within an existing development and surrounded by private residences. Particular attention was devoted to Roosevelt Water Conservation District easements located within and adjacent to the site. The design team was able to implement several creative strategies to visually mitigate the District facilities while maintaining functionality for the District. | <input checked="" type="checkbox"/> | Check if project performed with current firm |



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

| | | |
|--|-------------------------------|---|
| a. TITLE AND LOCATION <i>(City and State)</i> Lafayette Interceptor Drain and Outlet Design; Phoenix, AZ | b. YEAR COMPLETED | |
| | PROFESSIONAL SERVICES 2013 | CONSTRUCTION <i>(If applicable)</i> 2014 |

23. PROJECT OWNER'S INFORMATION

| | | |
|--|---|---------------------------------------|
| c. PROJECT OWNER Flood Control District of Maricopa County (FCDMC) and City of Phoenix Bobbie Ohler (FCDMC) 602-506-1501 | d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$775,955 / \$775,955 | e. TOTAL COST OF PROJECT \$775,955 |
|--|---|---------------------------------------|

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Olsson Associates was selected by the Flood Control District of Maricopa County (Flood Control District) and the City of Phoenix as the prime consultant for the design of the Lafayette Interceptor Drain and Outlet project. This project is the second segment of the Flood Control District's Arcadia Area Drainage Improvements, a regional flood control project proposed to mitigate flooding upstream of the Arizona Canal in the Arcadia watershed area. The scope of work included:

- Project management during design
- Ground survey to supplement the aerial topography
- Geotechnical investigation and testing to determine design parameters
- Evaluation of the regional and local hydrology
- Hydraulic analysis of the storm drain system
- Design of the storm drain system, including horizontal alignment and vertical profile to minimize utility conflicts
- Structural design of six transition structures and a custom design catch basin to avoid utility conflicts
- Utility coordination and relocation design of impacted water and sewer lines
- Preparation of construction documents (e.g., plans, special provisions, cost estimate, and design report)
- Post-design support during construction



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(Present no more than five (5) projects. Complete one Section 5 for each project.)

| | | |
|---|-------------------------------|--------------------------------------|
| a. TITLE AND LOCATION (City and State) Arizona Canal Path, Chaparral Road to Indian Bend Wash; Scottsdale, AZ | b. YEAR COMPLETED | |
| | PROFESSIONAL SERVICES 2014 | CONSTRUCTION (If applicable) 2015 |

23. PROJECT OWNER'S INFORMATION

| | | |
|--|---|-----------------------------------|
| c. PROJECT OWNER City of Scottsdale, AZ Paul Basha, Transportation Director 480-312-7651 Anna Leyva, Capital Projects Management 480-312-7769 | d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$4,200,000 / \$TBD | e. TOTAL COST OF PROJECT \$TBD |
|--|---|-----------------------------------|

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The City of Scottsdale has selected Olsson Associates as the prime consultant to provide master planning and design services for the Arizona Canal Shared-Use Pathway, from Chaparral Road to Indian Bend Road. This two-mile shared-use pathway segment completes the city's 14-mile portion of the Sun Circle Trail, which provides a network of trails along the 68 miles of canal throughout Maricopa County. This pathway segment also ties into the city of Scottsdale's 25-mile paved pathway system located throughout the Indian Bend Wash pathway system. The proposed project area is situated predominately within the Salt River Project jurisdictional right-of-way (ROW) limits. The project limits also include areas of the Flood Control District of Maricopa County's (FCDMC) ROW as well. The project is utilizing both the city of Scottsdale and federal funding acquired through the Congestion Mitigation and Air Quality (CMAQ) program.

Key project stakeholders include the city of Scottsdale, the Federal Highway Administration, the Arizona Department of Transportation, the Salt River Project, and the FCDMC, as well as several Scottsdale neighborhoods.

Regional destinations accessible from this network of pathways include Papago Park which is home to the Phoenix Zoo and the Desert Botanical Gardens. Connections to the Cross Cut Canal Trail provide access to Tempe Town Lake and Tempe Beach Park located within the downtown Tempe Mill Avenue District. Local area destinations within the Arizona Canal Pathway include the Indian Bend Wash Greenbelt Recreation Corridor which is home to world class golf courses, an extensive network of multi-use pathways, and several city of Scottsdale parks.

The project area is lined with residential neighborhoods. A key element during the master-planning process will be the placement of these neighborhood connections to provide access to the proposed pathway. Potential neighborhood connections include Vista Drive, 76th Street, Miller Road, Jackrabbit Road, and Lincoln Drive.

Olsson and the city are using public meetings to involve neighborhood groups and help determine where neighborhood connections should be placed.

Olsson is providing master planning, public involvement, landscape architecture, survey, as well as civil and structural engineering.



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

| | | |
|--|---|---|
| <p>a. TITLE AND LOCATION <i>(City and State)</i> Washington Elementary School District No. 6, Summer 2011 School Site Improvements at Acacia Elementary, Desert View Elementary, Manzanita Elementary, and Maryland School; Phoenix, AZ</p> | <p align="center">b. YEAR COMPLETED</p> | |
| | <p>PROFESSIONAL SERVICES 2011</p> | <p>CONSTRUCTION <i>(If applicable)</i> 2013</p> |

23. PROJECT OWNER'S INFORMATION

| | | |
|--|--|--|
| <p>c. PROJECT OWNER Washington Elementary School District Mike Kramer, WESD Director of Capital Projects 602-347-4835</p> | <p>d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$1,000,000 / \$850,000</p> | <p>e. TOTAL COST OF PROJECT \$850,000</p> |
|--|--|--|

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Washington Elementary School District selected Olsson to help improve vehicular and student circulation for the following school sites: Acacia Elementary, Desert View Elementary, Manzanita Elementary, and Maryland School. Project goals included separating the parent and bus drop-off areas, providing designated sidewalk routes for student walkers, addressing ADA compliant access, and alleviating traffic congestion along the city streets.

- **Acacia Elementary:** Design improvements included: installing a new internal drive to connect the two existing parking areas, allowing a longer on-site queue length for pick up/drop-off; and sidewalk and ADA ramp improvements throughout the campus.
- **Desert View Elementary:** Design improvements included installing a new internal drive to connect the two existing parking areas allowing a longer on-site queue length for pick up/drop-off. Drainage improvements within the existing parking lots were designed to mitigate existing water ponds within the parking areas. Sidewalk and ADA ramp improvements were also designed throughout the campus.
- **Manzanita Elementary:** Design improvements included a new bus lane along the existing street frontage and the re-configuration of the existing parking lot area to maximize parent pick up/drop-off queue lengths.
- **Maryland:** Design school improvements included dedicating a concrete bus lane and turnaround, which accommodates 10 school buses and provides additional staff and event parking. Parking lot circulation and ADA compliant sidewalk improvements were also designed for students, staff, and visitors. New parent pick up/drop-off lanes extending the internal on-site queue length.



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(Present no more than five (5) projects. Complete one Section 5 for each project.)

| | | |
|---|-------------------------------|--------------------------------------|
| a. TITLE AND LOCATION (City and State) Old Crosscut Canal Improvements; Phoenix, AZ | b. YEAR COMPLETED | |
| | PROFESSIONAL SERVICES 2012 | CONSTRUCTION (If applicable) 2013 |

23. PROJECT OWNER'S INFORMATION

| | | |
|--|---|--|
| c. PROJECT OWNER Flood Control District of Maricopa County (FCDMC) and City of Phoenix, AZ Bobbie Ohler (FCDMC) 602-506-2943 Hasan Mushtaq (City of Phoenix) 602-262-4026 | d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$251,474 / \$280,531 | e. TOTAL COST OF PROJECT \$309,588 (After the design effort was started, the scope of work was expanded to include the crossing of the Arizona Canal. \$29,057 along with the additional scope of work was added to the contract. This addition was accommodated within the original schedule.) |
|--|---|--|

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

Olsson served as the prime consultant for this fast-track project, which is Phase 1 of the overall Arcadia area drainage improvements. Phase 1 includes the undercrossing of the Arizona Canal and the replacement of the Old Cross Cut Canal (OCCC) earthen channel with an underground drainage system. Phase 1 is subdivided into Phase 1A, which consists of design and construction of the storm drain system from Indian School Road up to the Arizona Canal, and Phase 1B which includes the design of the undercrossing. Future phases will construct the storm drain portion to the north of the Arizona canal.

The Old Cross Cut Canal Improvements Project was implemented to enclose the Old Cross Cut Canal into a closed storm drain system and to provide an outlet for a future storm drain system that will mitigate flooding for properties within the Arcadia area watershed and to reduce flooding along the upstream side of the Arizona Canal. Prior to this project there were no drainage facilities to outlet stormwater from the Arcadia drainage area. This project will construct a storm drain system to collect and convey flows from the Arcadia drainage area into the Old Cross Cut Canal (OCCC) north of Indian School Road. The future system will provide flood protection in excess of the 10-year level. Additionally, the existing OCCC earthen ditch will be piped underground and be connected to the existing 2-10'x10' box culvert, which ultimately drains to the Grand Canal. Key design features of this project include:

- **Design of the inlet structure at the SRP headgate structure.** An IGA with SRP required the project to accommodate up to 1,000 cfs of discharge from the Arizona Canal at the headgate structure. SRP also requested that the design of the inlet structure and storm drain system not submerge their gates. In addition, District design guidelines require the velocity in the storm drain to be less than 15 feet per second. Olsson worked with the District engineers and designed a stepped spillway with a USBR Type III basin to dissipate energy as the water dropped almost 13 feet from the SRP headgate structure to the entrance of the storm drain.

This project is a joint effort between the Flood Control District of Maricopa County (FCDMC) and the City of Phoenix (COP), with the District taking the lead in the design and the City taking the lead in the construction. This project is being delivered using the CMAR delivery method.



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5. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present no more than five (5) projects. Complete one Section 5 for each project.)

| | | |
|--|--------------------------------------|---|
| a. TITLE AND LOCATION <i>(City and State)</i> Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ | b. YEAR COMPLETED | |
| | PROFESSIONAL SERVICES 2014 | CONSTRUCTION <i>(If applicable)</i> February 2014 |

23. PROJECT OWNER'S INFORMATION

| | | |
|---|--|---|
| c. PROJECT OWNER Fort McDowell Yavapai Nation (Nation) Joe Kanovich, Project Manager 480-789-7743 Erika McCalvin, Planning Manager 480-789-7742 | d. ORIGINAL BUDGET/NTE AMOUNT OF PROJECT \$472,273 / \$496,933 | e. TOTAL COST OF PROJECT \$2,864,688.32 |
|---|--|---|

f. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (include scope, size, and length of project)

The Fort McDowell Yavapai Nation (FMYN) received federal funding under the Congestion Mitigation Air Quality (CMAQ) program for paving dirt roads within the FMYN. Approximately 4.9 miles of roads were targeted for paving, triggering compliance with Federal Highways Administration (FHWA) and Arizona Department of Transportation (ADOT), who administer CMAQ funds. The Nation and ADOT established an intergovernmental agreement (IGA) and the project was administered through ADOT's LPA Section. As the prime consultant, Olsson was selected by the FMYN to provide design services to pave seven dirt roads in close proximity with the intersection of SR 87 and Fort McDowell Road within the Nation. Olsson provided design expertise in civil, drainage, traffic, transportation, structural engineering and surveying. The Olsson design team provided the following design deliverables: DCR, drainage report, environmental clearance and cultural report, geotechnical report, construction documents, project specifications and construction cost estimate. Primary design attributes include the following:

- **Alignment.** All roadways within this project were 28'-34' wide and were located on existing roadway grading as much as possible. At-grade water crossings required reduced speed limits and water level warning signs to provide safety to the public.
- **Drainage Improvements.** To provide paved roadways and reduce PM-10 without adding extra cost to the project, at-grade water crossings were designed with riprap for scour protection to allow flow over the roadway but still protecting the asphalt.
- **Traffic Engineering.** To limit the cost of traffic related items, since the goal of this project was to reduce PM-10, existing items were relocated. On this project the existing sign configuration was upgraded to provide a safer roadway. Some additional roadway striping was added where appropriate.
- **Internal, External, and Agency Coordination.** Coordination on the FMYN project involved the client, agencies, utilities, design team, and the members of the Nation. On this project Olsson held regular meetings with the client at milestone dates to insure appropriate communication. ADOT was contacted on a regular basis to keep all parties informed on where the project design was. With using federal funds several requirements were needed. One requirement that was important to get started on early is the environmental clearance. Olsson worked with the Del Sol Group to provide the details of the project early on so that they could provide the environmental documentation to get the necessary clearances before on-site construction activity was done. A less involved environmental clearance was necessary for geotechnical investigation on the projects. Along with these examples the entire project team was kept up to date on how the project was progressing and if any design related coordination was needed.
- **Funding.** Funding for each project is usually set up by the sponsor agency and MAG. The construction amount was estimated and programmed so the funds could be allocated as necessary to complete the project. Olsson helped the FMYN apply for funds usually allocated in large part to municipalities. Since the Indian communities are physically in the same area as other MAG funded municipalities, air quality is also important to them. This benefit is why Olsson has helped FMYN become more familiar with the funds available and coordinated with ADOT to help the FMYN understand what ADOT required so that FMYN could acquire the funds provided from the federal government.



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ANNUAL REQUEST FOR QUALIFICATIONS AND EXPERIENCE NO:
ADSP015-00004729

STATE PROCUREMENT OFFICE
Department of Administration
100 North 15th Avenue, Suite 201
Phoenix, Arizona 85007

6. ADDITIONAL INFORMATION

a. PROVIDE ANY ADDITIONAL INFORMATION YOU FEEL MAY BE NECESSARY TO DESCRIBE YOUR FIRMS QUALIFICATIONS. (ATTACH ADDITIONAL SHEETS AS NEEDED.)

See attached information regarding Olsson Associates qualifications.

7. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

| | | |
|----|--|-----|
| a. | Percentage of Total Work Attributable to State, Federal and Municipal Government Work: | 60% |
| b. | Percentage of Total Work Attributable to Non-Government Work: | 40% |

8. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.

Signature: _____ Date: December 23, 2014

Name: Len Swartz, PE, LEED AP BC+D Title: Vice President/Office Leader

December 23, 2014

Attn: Melissa Bauer, Senior Procurement Specialist
State of Arizona, State Procurement Office
100 N 15th Ave, Suite 201
Phoenix, AZ 85007

RE: Statement of Qualifications for Annual Professional Services Solicitation No. ADSPO15-00004729

Dear Ms. Bauer,

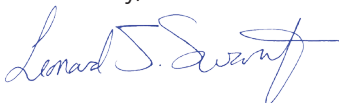
Olsson Associates, Inc. (Olsson), a fully multi-disciplinary consulting firm, was established in 1956 and has been providing high quality and personalized services to both public and private sector clients across the country. Our overall company staff includes 900 employees, providing civil engineering, landscape architecture, survey, land planning, electrical, water resources, transportation engineering and transportation planning services. All of the required services will be provided from our local Phoenix Regional office which was established in 1999. We pride ourselves on providing excellent client service through focusing on responsiveness, budget, and schedule. Within the statement of qualifications you will find examples of projects illustrating our local experience.

Olsson appreciates the opportunity to respond to the State's Request for Qualifications. We have organized a Team with substantial engineers, surveyors, landscape architects, planners, and complementary technical experience directly related to the potential scope of work outlined in the Request for Qualifications. The majority of our team members have dedicated their entire careers to providing professional services in the State of Arizona.

Olsson understands on-call services and values the relationship building with a Client to provide long term value. Olsson has been selected and completed several project assignments through on-call contracts with state and municipalities throughout Arizona. We have provided services on an As- Needed basis for the City of Goodyear, City of Avondale, City of Phoenix, City of Glendale, City of Tempe, City of Scottsdale, City of Chandler, Town of Gilbert, Pinal County, Flood Control District of Maricopa County, Maricopa County Department of Transportation, and the Arizona Department of Transportation. Olsson has provided professional engineering services to various school districts under previous and current ADOA contracts.

In summation, Olsson's team possesses the knowledge and financial capabilities to perform the range of services identified. Our technical expertise and dedicated project management abilities will allow us to complete the assignments on-time and within budget. Our previous project references can substantiate our performance record. On behalf of our team, thank you for the time you will spend reviewing our submittal.

Sincerely,



Len Swartz, PE, LEED AP BD+C
Principal-In-Charge

7250 North 16th Street, Suite 210
Phoenix, AZ 85020-5282

TEL 602.748.1000
FAX 602.748.1001

lswartz@olssonassociates.com
www.olssonassociates.com

FIRM OVERVIEW:

Established in 1956, Olsson Associates (Olsson) offers civil, municipal, structural, water / wastewater, mechanical / electrical, transportation, drainage and traffic engineering, plan review, landscape architecture, GIS and surveying. Our firm is comprised of over 850 professionals. Members of the staff include professional registered engineers, engineers-in-training, registered landscape architects, registered land surveyors, professional planners and designers, scientists, and support staff comprised of highly trained technical personnel with broad experience in all phases of design and construction phase services. Olsson is a private, employee owned corporation that is headquartered at 601 P Street, Lincoln, Nebraska.

We maintain 24 offices in the Midwestern and Western United States, including Phoenix and Chandler. If you have questions concerning this SOQ, please contact our proposed Principal-In-Charge, Len Swartz, PE, LEED AP BD+C. He is located in our Phoenix office at 7250 N. 16th Street, Suite 210, Phoenix, AZ 85020. He can be contacted either at this address, by phone at 602-748-1000 or via E-Mail at lswartz@olssonassociates.com.



Uniform Terms and Conditions State of Arizona

Olsson Associates shall comply with the State of Arizona terms and conditions.

FIRM CAPABILITIES:

For more than half a century, Olsson has been a part of public and private infrastructure projects that are the foundation for strong, vibrant communities. Our Arizona practice began with our Phoenix office in 1999 and now has grown to include an office in Chandler.

Olsson appreciates the opportunity to submit this Statement of Qualifications for the Arizona Department of Administration Annual List of Professional Services. We are submitting under the following work categories:

- **Engineering Services: including:**
Civil Engineering, Water Resources, Structural Engineering, Electrical Engineering and Transportation Engineering
- **Landscape Architecture**
- **Land Surveying & GIS Services**

CIVIL ENGINEERING

Olsson has been providing a wide array of civil engineering services to several municipalities, agencies, and school districts throughout Arizona for over 14 years. Several projects listed in the project experience section are first hand examples of projects that have been procured through various Arizona agency civil engineering on-call contracts. Olsson values these relationships as the key to our firm's success as we have continued to work with several agencies through consecutive on-call selections and renewals. Our team of experienced engineers, designers and technicians can handle any miscellaneous civil engineering projects types, big or small. Olsson provides the following civil engineering design services:

- **Grading & Drainage**
- **Paving Plans**
- **Water / Sewer Plans**
- **Utility Plans**
- **Storm Water Pollution Prevention Plans**
- **Geometric Layout**



LEED Capabilities

Olsson as a company has been actively involved with the LEED initiative over the past several years with local staff obtaining LEED accreditation in the fields of Site Engineering, Planning, Landscape Architecture, Mechanical System Design, and Building Commissioning. The Olsson design staff has been involved with numerous LEED projects beginning with project registration, design development, construction, and post construction involving the project certification process. As design professionals it has always been our mission to be stewards of the land and our environment, the LEED process simply builds upon these principles while educating the public on sustainability at the same time.

Civil Engineering Project Specific Experience

Washington Elementary School District No. 6: Paving & Site Improvement Projects, Phoenix, Arizona

Firm Role: Prime

Project Owner: Washington Elementary School District

Reference: Mike Kramer, Director of Capital Projects WESD No. 6, (602) 347-4835

Key Olsson Staff: Len Swartz, PE, Civil Engineer; Eric Williams, Civil Technician; Neil Craig, Survey

Project Description: Project Description: The Washington Elementary School District selected Olsson to help improve vehicular and student circulation and make ADA upgrades at several existing school sites. These sites are older facilities that often share bus and parent drop off areas in the same parking lot. Several of the sites have cars parking on the surrounding streets during pick up and drop off causing congestion and circulation problems for the City of Phoenix. The project goals included the separation of the parent and bus drop off areas, address ADA access and alleviate traffic congestion along the City streets. Olsson provided civil engineering, landscape architecture and survey services.

School Sites Included:

- Acacia Elementary
- Desert View Elementary
- Maryland School
- Manzanita Elementary
- Orangewood School
- Sweetwater School
- Cactus Wren Elementary





Casa Grande, Arizona School District Paving Projects

Firm Role: Prime

Project Owner: Casa Grande Elementary School District No. 4

Reference: Frank Corder, Director of Facilities (520) 836-4782

Key Olsson Staff: Len Swartz, Principal

The District utilized Olsson to evaluate pavement condition of existing parking lots, parent drop-off areas, and bus loops throughout the District. Several of the parking lots among the District's school sites had never been properly maintained, which led to pavement cracking and failure. With 14 school sites, the District's budget could not afford to do a complete pavement removal and replacement at every site. The goal of the project was to

establish a maintenance program, helping to extend the life of the school sites' parking lots and help stagger the maintenance costs for the district. School sites included:

- Desert Willow Elementary School
- Evergreen Elementary School
- Mesquite Elementary School
- Palo Verde Elementary School
- Saguaro Elementary School
- Ocotillo Maintenance Facility Annex

WATER RESOURCES ENGINEERING

The Olsson team can provide diverse drainage design services including storm drain design, open channel design, drainage master plans, hydrology and hydraulic studies, street and highway drainage, retention/detention basin design, sediment and scour evaluation, site development requirements, floodplain delineation, storm water erosion control, and water quality measures. Our project experience ranges from site development and local flooding hazard mitigation to area-wide master studies and regional storm drain systems. Members of the Olsson team have extensive experience in documenting current conditions, problem identification, alternative selection and construction document preparation. Members of the Olsson team also have experience on storm drain projects that required the preparation of plans, specifications and estimates for small diameter connector pipes and inlets up to 108" diameter storm drain trunk lines. Olsson Services include:

- Hydrology & Hydraulics
- Master Plans
- Floodplain Analysis & Permitting
- Flood Mitigation
- Stormwater Design & Permitting
- Drainage Studies



Water Resources Project Specific Experience



Camelback Road Storm Drain, 59th Avenue to 75th Avenue, Glendale, Arizona

Firm Role: Prime

Project Owner: FCDMC, City of Phoenix, City of Glendale

Reference: Michael Duncan, Flood Control District of maricopa County (FCDMC) Project Manager, (602) 506-4732

Key Olsson Staff: Jeff Ford, PE, Project Manager; Duc Dao, PE, Drainage Engineer

Project Description: Project Description: Olsson served as the prime consultant for this FCDMC project, which is part of the Bethany Home Outfall Channel (BHOC) system, a regional drainage system designed to mitigate flooding

along the upstream side of the Grand Canal from Indian School Road to the Loop 101 Freeway. The Camelback Road Storm Drain project consists of constructing approximately two miles of large diameter (48" to 102" diameter) trunk line along Camelback Road from 58th Avenue to the BHOC outlet structure located approximately 340 feet east of the 75th Avenue centerline. The project also includes approximately one mile of lateral storm drain along intersecting streets north of Camelback Road to convey flows to the trunk line, over 100 catch basins with connector pipes along the trunk and lateral lines to capture and convey onsite and offsite flows, relocation of water and sewer lines, and minor paving and grading including four median islands.



Old Cross Cut Canal Improvements, City of Phoenix, Arizona

Firm Role: Prime

Project Owner: FCDMC, City of Phoenix, City of Glendale

Reference: Bobbie Ohler, FCDMC, (602) 262-4026

Key Olsson Staff: Jeff Ford, PE, Project Manager; Duc Dao, PE, Drainage Engineer

Project Description: Project Description: Olsson served as the prime consultant and for this fast-track project, which is Phase 1 of the overall Arcadia area drainage improvements. Phase 1 includes the undercrossing of the Arizona Canal and the replacement of the Old Cross Cut Canal (OCCC) earthen channel with an underground drainage system. Phase 1 is subdivided into Phase 1A, which consists of design and construction of the storm drain system from Indian School Road up to the Arizona Canal, and Phase 1B which includes the design of the undercrossing. Future phases will construct the storm drain portion to the north of the Arizona canal.



STRUCTURAL ENGINEERING



Olsson has experience with a wide range of bridge structure types, including steel girders, pre-stressed concrete girders, and concrete slab bridges. Better yet, we are backed by a national team of engineering, design, and technical experts in disciplines that often come into play in bridge and overpass design. These disciplines include geotechnical services, roadway design, surveying, hydrology and hydraulics, landscape architecture, lighting, and environmental sciences.

Structural Engineering Project Specific Experience

City of Phoenix Bicycle and Pedestrian Bridge Children's Museum - Arizona Science Center

Firm Role: Prime

Project Owner: Maricopa Association of Governments (MAG)

Reference: Maureen DeCindis, MAG Project Manager, (602) 454-5073

Key Olsson Staff: Len Swartz, PE, Civil Engineer, Shane Hennessey, PE, Structural Engineer

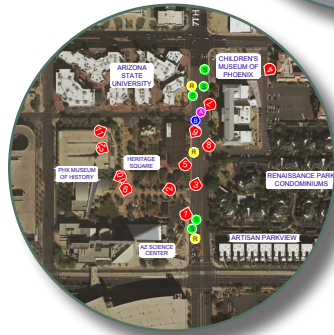
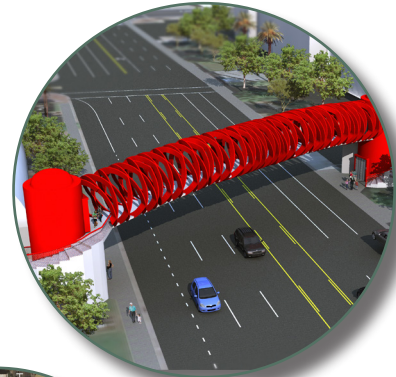
Project Description: Olsson Associates is currently working with the Maricopa Association of Governments (MAG) and the City of Phoenix on a project assessment to study and evaluate the crossing of 7th Street between Van Buren and Washington Street located within the urban core of downtown Phoenix.

The project shall provide key linkages to several downtown destinations including the Children's Museum of Phoenix with the Arizona Science Center as well as historic Heritage Square, Copper Square, and the downtown sporting venues.

The analysis shall study three proposed crossing alternatives for the project area:

1. Grade Separation Bridge crossing of 7th Street
2. Below Grade Separation crossing of 7th Street
3. Mid Block at Grade crossing of 7th Street

The assessment includes a traffic study, 15% design, utility, right of way and environmental information as well as a preliminary cost estimate. The project also includes two project stakeholder public meetings. Olsson is the prime consultant providing planning, public involvement, landscape architecture, civil and structural engineering.





City of Tempe Athletic Field Lighting Improvements, Tempe, Arizona

Firm Role: Prime

Project Owner: City of Tempe

References: Chris Kabala, PE, City of Tempe Project Manager, (480) 350-8585



Key Olsson Staff: Ken Fairchild, PE, Electrical Engineer

Project Description: In 2008, Olsson conducted a lighting evaluation study for the City of Tempe. The purpose of the study was to evaluate the major components of cost for the proposed athletic fields lighting improvements at the fifteen (15) City of Tempe (COT) parks and/or sports complexes all of which were in the 30 to 40 year old range. The evaluation included

preliminary prototype lighting designs from two (2) sports lighting manufacturers, for the proposed improvements at each facility. The prototype designs included photometric analysis, fixture count, and proposed pole locations. The evaluation also included capacity availability and physical inspection of the Service Entrance Section (SES) at each site. With the known fixture count at each site via the prototype design, it was determined whether the existing SES would have enough capacity to serve the proposed sports lighting system. From the evaluations, an engineer's opinion of probable cost was developed for each site, illustrating the major components of the sports lighting upgrades.

City of Tempe Diablo Stadium Sports Field Lighting, Tempe, Arizona

Firm Role: Prime

Project Owner: City of Tempe

References: Chris Kabala, PE, City of Tempe Project Manager, (480) 350-8585

Key Olsson Staff: Ken Fairchild, PE, Electrical Engineer

Project Description: In September of 2009, the U.S. Consumer Product Safety Commission (USPC) alerted the public that a particular manufacturer's outdoor steel stadium light pole are failing and are falling over. They instructed that poles issued from this particular manufacturer be inspected.



In January of 2009, Olsson Associate's Non-Destructive Team (NDT) inspected all the poles at Diablo Stadium, the spring training home of the Anaheim Angels, in Tempe, AZ. The NDT team provided documentation of the structural integrity of each pole and gave their professional opinion on what should be done with each pole. The NDT team did find deficiencies in the poles and in some cases, recommended immediate removal.

Due to the economic stability Diablo Stadium provides for the area and the City, it was decided that the entire lighting system be replaced with a more economic and structurally sound system. The project provided 100/70 foot-candle levels in the field with a control scheme implemented to reduce the levels to 50/30 fc. A dedicated "Maintenance" lighting system was designed to provide adequate lighting for after game cleanup without having the entire lighting system energized. The existing Electrical Service Entrance was found to be in non-compliance with the local Utilities requirements, thus was removed from its interior location and relocated to an accessible location on site. The project was completed in April of 2011.

TRANSPORTATION ENGINEERING



Our Transportation team has the knowledge and experience to design a wide variety of projects, from interstate systems to two-lane rural highways, urban arterial roadways, and trails.

Olsson Associates' designs go beyond meeting guidelines to provide safe and efficient roadways; we provide innovative ideas to keep projects green, on schedule, and at or under budget. Our transportation engineers are responsive and proactive. We work with clients to identify areas of added benefit through communication, collaboration, and coordination. This is evident in our strong client relationships and ability to apply unique solutions to everyday problems.



Our transportation designers lead the coordination efforts with Olsson teams that provide additional services to fully address every aspect of our clients' projects. The transportation team creates successful and sustainable projects through close collaboration with clients, project stakeholders, and the public. Olsson's transportation services include the following:

- **Transportation Planning**
- **Roadway Design**

Transportation Engineering Project Specific Experience

Rosser Street Improvements, Phase II

Firm Role: Prime

Project Owner: City of Prescott

Key Olsson Staff: Len Swartz, PE

References: George Henderson, PM City of Prescott, Ph: 928 777 1140

Project Description: Olsson provided pre-design services and final design services for this project. Rosser Street is a collector road that has many homes fronting onto it as well as a number of local streets intersecting with it. Currently, Rosser Street acts as a connector road between SR-89 and Willow Creek Road (two major parts of town). The residents surrounding Rosser Street were unhappy with the amount of "cut-through" traffic as well as the speed of the traffic. Therefore, the purpose of the roadway project was to provide traffic calming for this reach of local collector roadway through a residential area that consisted of one lane each way, bike lanes, and a continuous center turn lane. Pre-design services included four public meetings to generate public input to develop the preferred alternatives, as well as generating consensus for the selected alternative.

A challenging part of the traffic calming design was to ensure that the design and installation of the traffic calming devices did not leave homes without access in either the east or west directions. Another challenging aspect of the design was to make sure that the final product was weather enduring as well, as heavy snow falls in the Prescott area is not unheard of. The goal for the traffic calming design was to create a safe, functional and an esthetically pleasing environment for drivers and local residents while at the same time deter "cutthrough" traffic. A combination of chicanes and islands along with a bike lane in each direction was selected as the preferred alternative.





Paved Dirt Roads; Fort McDowell Yavapai Nation, AZ

Firm Role: Prime

Project Owner: Fort McDowell Yavapai Nation

Key Olsson Staff: Len Swartz, PE, Project Manager; Duc Dao, PE, Drainage Engineer; Ron Szwiec, PE, Transportation Engineer

References: Andres Paiva, Project Manager, (408) 789-7748 and Erika McCalvin, Planning Manager, (480) 789-7742

Project Description: Olsson provided design services to realign and pave seven local and collector streets, approximately 4.9 miles, throughout the Yavapai Nation. Existing road widths of 28' to 34' and road profiles were maintained to minimize the disturbance of existing vegetation and drainage patterns. The roads were covered with a pavement structural section consisting of 6" of aggregate base and 3" of asphalt. Drainage improvements consist new pipe culverts at select locations and at-grade water crossings that are treated at the roadway edge with riprap to prevent scour. Existing signs are brought to current reflectivity standards and stripes were painted on the new asphalt pavement.



Olsson provided design expertise in roadway, drainage, pavement, traffic, structural engineering and surveying. Design deliverables included: Design Concept Report (DCR), drainage report, environmental clearance and cultural report, geotechnical report, construction documents, project specifications and construction cost estimate.

Esperanza Boulevard/I-19 Bicycle and Pedestrian Enhancement; Green Valley, AZ

Firm Role: Prime

Project Owner: ADOT

Key Olsson Staff: Cardell Andrews, EI, Project Manager; Ron Szwiec, PE, Transportation Engineer

References: Jim Confer, Project Manager, (520) 388-4265; Natalie Clark, MA, (520) 388-4252

Project Description: Olsson Associates was responsible for all aspects of design. To help safety concerns along this stretch of roadway, Esperanza Boulevard/I-19 Bicycle and Pedestrian Enhancement, an ADOT Enhancement and Scenic Roads Section-sponsored project, includes pavement widening for new bicycle lanes, ADA-compliant pedestrian curb ramps, benches, and landscaping along both sides of Esperanza Boulevard from Abrego Drive to La Canada Drive. Construction is estimated to be started in the first quarter of 2014.



LANDSCAPE ARCHITECTURE



We excel at comprehensive plans for all levels of government, including downtown revitalization projects and new urbanism developments, as well as open-space designs for national and community parks, recreation areas, neighborhoods, and mixed-use developments. Sustainable design is at the heart of our landscape architecture and urban planning projects because we respect the complex interrelationships between the built environment and our natural resources.

Our staff is supported by a state-of-the-art high capacity CADD system, graphic design, desktop publishing, and extensive software programs for design and analysis of discipline related work, providing accurate, technically sound designs while saving our clients' time and money. Olsson's Landscape Architects provide the following Landscape Architecture Services:



- **Landscape & Irrigation Design**
- **Park Development Design**
- **Master Planning**
- **Campus Planning**
- **Public Involvement**

Landscape and Irrigation

The Olsson team members have extensive experience in landscape and irrigation design. We have completed landscape and irrigation projects ranging in size from less than one acre site improvements to large regional parks and multiple miles of ADOT Highway landscape and irrigation improvements. Our registered landscape architects and irrigation designers understand how to complete our client's projects on time and within budget.

Parks Development

Olsson has extremely talented team members focusing on park design and development. Parks planning and design is a particular area of expertise for Olsson. We are recognized leaders in this industry and have extensive multi-disciplinary experience on parks throughout the Valley and State. We have the technical capabilities and capacity to complete projects of all scales and complexities. We have prepared 20,000 acre master plans as well as construction drawings for regional and neighborhood parks. This breadth of experience gives us the ability to listen and understand our clients' needs. We have also been recognized for our abilities in conducting community participation programs where we help craft vision statements, goals, and objectives to help guide public input towards consensus.

Landscape Architecture Project Specific Experience

ASU North Campus Improvements, Tempe Arizona

Firm Role: Prime

Project Owner: Arizona State University

References: Byron Sampson, RLA, Office of the University Architect, (480) 727-6021

Key Olsson Staff: Len Swartz, PE, Principal; Kimberly A. Kleski, PLA, ASLA, LEED® AP BD+C, Landscape Architect

Project Description: Olsson provided Arizona State University with master planning services for the ASU North Campus Site Enhancement project. Olsson was selected by ASU through the ASU Annual Services on-call. The project site is situated within a 28 acre triangular piece of real estate on the north side University



between College Avenue and Veterans Way. This area originally developed in the mid 1960's is home to ASU's most historic residency halls Palo Verde East, West and Main and the iconic Manzanita Hall. The area has seen additional infill development in the early 2000 with the San Pablo residency hall and the Fulton Building and Parking Structure. These residency halls are home to incoming freshmen and are in need of a functional facelift to provide an improved residence life experience and help compete with the newer resort like residency halls located on the southern half of the ASU campus. Olsson provided campus master planning landscape architecture, civil engineering, electrical engineering and survey services for this project.



LAND SURVEYING



The Olsson Arizona Survey Team is part of a dynamic operation and supply the discovery phase of most projects with topographic surveying and boundary research and identification. We utilize the latest state-of-the-art technical resources for all survey activities. To provide our survey services, our survey crews are equipped with Trimble Real Time GPS systems, Total Stations with Data Collectors, four wheel drive pickup trucks and cell phones. Support for the survey crew activities are provided with computer workstations have the most current versions of AutoCAD. Workstations also include the latest version of Trimble Business Center, and Microsoft Office software. Our present office staff is 1 Registered Land Surveyors and 1 LSIT. We also have two survey crews in the field from this office and can get additional crews from other Olsson offices when needed.



- **Topographical Surveys**
- **Boundary Surveys**
- **Right-of-Ways**
- **ALTA Surveys**
- **Legal Descriptions / Easements**
- **Railroad Surveys**
- **Hydraulic Surveys**

Land Surveying Project Specific Experience

Sonoran Preserve Initiative – Acquisition Surveying, Arizona

Firm Role: Prime Consultant

Project Owner: City of Phoenix

References: Chris Ewell, RLA, City of Phoenix Project Manager, (602) 534-5292; Dale Larsen (former City of Phoenix Parks & Recreation Director), (602) 496-0422

Project Description: Olsson was selected through a City of Phoenix On-Call Services contract to provide survey services for seven sections of land and define over 13 miles of Preserve boundary within those sections to support the



Sonoran Preserve Initiative. The scope of services included breakout of the sections, definition of the proposed boundary, legal description preparation, preparation of Land Title Survey and setting concrete property corner monuments.



Pinal County Public Works Department On-Call - (Review Services For The Flood Control Section)

Firm Role: Prime Consultant

Project Owner: Pinal County

References: Elise Moore, CFM, Flood Control Section, (520) 886-6638; Christopher Wanamaker, EIT, CFM, (520) 866-6010, Pinal County

Key Olsson Staff: Jeff Ford, PE, Project Manager; Duc Dao, PE, Civil Engineer

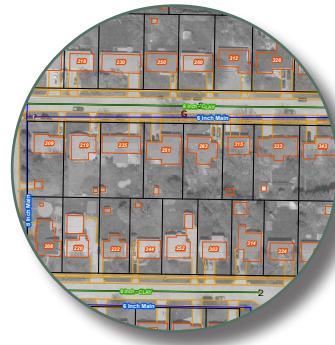
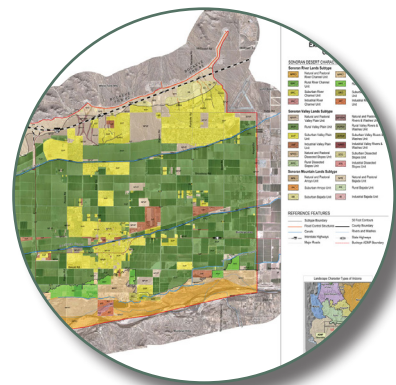
The Olsson team has worked extensively with Pinal County on various projects under our current on-call contract. Additionally, for the years 2010 & 2011 (over a period of 15 months) Olsson has prepared 835 FEMA elevation certificates (556 Parcels). The project consisted of 7 sub sets at different dates. The sub sets were Queen Valley (50 Parcels), Eloy (99 Parcels), CG West (68 Parcels), Picacho (46 Parcels), Toltec (97 Parcels), Chuichu (114 Parcels) and Maricopa (82 Parcels). Scope of services included surveying elevation data for each Parcel, determining the Latitude and Longitude of each parcel, taking pictures of all the structures both front and back, and finally preparing the FEMA Elevation Certificate Forms for submittal.

GEOGRAPHIC INFORMATION SYSTEMS, GIS

Olsson has provided GIS data creation, maintenance, and display for different projects and multiple disciplines. Emphasizing on creative display and quality assurance Olsson has endeavored to create a GIS product that will meet and exceed client goals. Utilizing the spatial analysis procedures native to GIS Olsson is able to provide an increased insight into opportunities and constraints facing each project and project area. Olsson is also greatly concerned with maintaining high quality data submission so that any resulting GIS data can be successfully integrated into an existing municipal GIS.

GIS Services:

- **GIS data management and format conversions of large and complex vector/raster data sets.**
- **Compile geographic data from a variety of sources including imagery and cartographic products.**
- **Prepare high-quality cartographic products.**
- **Perform advanced spatial analyses.**
- **Generate statistical reports, and work with a multidisciplinary team of engineers, scientists, planners, and project managers.**
- **Manage GIS projects while working closely with internal and external clients.**
- **Develop, maintain, and implement policies and procedures that ensure the accuracy of GIS information maintained.**



GIS Project Specific Experience

Maricopa County Parks And Recreation System Master Plan, Arizona

Firm Role: Prime

Project Owner: Maricopa County

References: RJ Cardin, Maricopa County Parks & Recreation Director, (602) 372-4822

Key Olsson Staff: Avery Oltmans, AICP, GIS Mapping and Data; Michaela Oltmans, Graphic Design

Project Description: Extensive growth in recent years prompted Maricopa County, Arizona, to update its parks system master plan. The county is one of the largest in the United States and its park system was established more than half a century ago. The system, which dates back to 1954, is massive. It has 10 regional parks encompassing more than 150,000 acres of urban, suburban and rural land. It's a dynamic system that continues to grow with acquisition of land for a trails system and new Arizona Preserve Initiative (API) lands. The system's master plan, however, was seriously outdated. Before this update, the county's most recent official parks master plan had been adopted in 1965. The updated plan addresses population growth and short and long-term park needs. Olsson assisted PROS Consulting in preparing the park system master plan to guide decisions for future development and management of the county's parks, recreation, and open spaces.



GIS Services Provided:

- Collection of existing municipal and county facilities data.
- Update of new GIS for later inclusion into existing County GIS.
- Creation of presentation displays for inclusion in public involvement and final report.

TEAM ORGANIZATION CHART



ARIZONA
 DEPARTMENT OF ADMINISTRATION
 annual REQUEST FOR QUALIFICATIONS & EXPERIENCE
 Solicitation NO. ADSPO14-00003465
 State Procurement Office

Olsson Associates In-House Project Team Support

Transportation • Traffic • Water Resources • Civil Engineering/Land Development
 Landscape Architecture/Urban Planning • Survey • LEED Accredited Professionals

| | | |
|---|---|--|
| Computer Graphics -Graphic Design -Presentation Boards -Digital Imaging -Sketchup/3DModeling | Reproduction -Plans/Specifications -Plotting -Presentation Materials -Working Papers | Computer Resources -Photoshop -Visual Simulation -AutoCAD/Civil 3D/MicroStation -Web Site |
|---|---|--|

KEY PERSONNEL



Len Swartz, PE, LEED AP BD+C
Principal-In-Charge
Senior Civil Engineer

Education: Bachelor of Science, Civil Engineering, University of Nebraska-Lincoln, 1998

Professional Registration: Civil Engineer AZ #42245

Olsson Professional Experience: 1999 to Present

Office Location: Phoenix, AZ

Availability: 35%

Len lead's Olsson's Arizona region. His work involves primarily large site development projects. His responsibilities include the design of utilities, grading, and pavement design. These projects have required Len to lead the coordination between numerous design teams and other design firms for successful completion of projects. Len has extensive experience helping clients determine the best site layouts through coordination with the entire project team.



Rod Penniman, PE
Project Manager/Senior Civil Engineer

Education: Bachelor of Technology, Civil Engineering Technology, Rochester Institute of Technology, 1985

Professional Registration: Professional Engineer: AZ, # 31628; NY, # 072203

Olsson Professional Experience: 2012 to Present

Office Location: Phoenix, AZ

Availability: 25%

Rod is a civil engineer with nearly 30 years of transportation experience. Rod has more than 15 years of experience managing transportation projects in Arizona. Rod's most notable experience includes providing overall project management for the Local Government Economic Stimulus Program for ADOT from 2009 – 2011. The work includes the administration, environmental compliance and permitting, preparation and review of scoping and construction documents of various projects by Local Governments utilizing American Recovery and Reinvestment Act (ARRA) funds. He was responsible for the management and design of 24 local government projects with a total construction cost of more than \$20M. He managed a multidiscipline team of engineers and environmental specialist; coordinated with 13 Western Maricopa County local government agencies, Gila River Indian Community, engineering consultants, ADOT, FHWA and multiple utility companies to ensure that the projects were designed in accordance with FHWA and ARRA requirements.



Dave Jensen, PE, CFM
Project Manager/Senior Civil Engineer

Education: Master of Science, Civil Engineering, Brigham Young University, 1998. Bachelor of Science, Civil Engineering, Brigham Young University, 1996

Professional Registration: : Professional Engineer: AZ #36852. Certified Floodplain Manager: US-06-01987

Olsson Professional Experience: 2012 to Present

Office Location: Chandler, AZ

Availability: 25%

Dave is a senior project manager and hydraulic engineer with 16 years of experience leading dam safety analysis and design projects, riverine hydraulic studies, stormwater management projects and

floodplain management projects. He completed many studies on riverine and drainage systems of dams to analyze the effects dams have on downstream environments. He has completed dam breach analysis, inundation analysis and emergency action plan studies for dams. He has completed preliminary assessments and design documents for dam safety improvements.



Duc Dao, PE, CFM
Civil Engineer/Project Engineer

Education: Bachelor of Science, Civil Engineering, University of California, Irvine, 1997

Professional Registration: Civil Engineer AZ #37849

Olsson Professional Experience: 2005 to Present

Office Location: Phoenix, AZ

Availability: 35%

Duc has 21 years of civil engineering experience in California and Arizona encompassing a wide variety of fields, including construction management, environmental engineering, roadway design, and water & sewer design, but has specialized in water resources and drainage design during the past 11 years. In his current position, Duc's responsibilities include performing hydrologic and hydraulic analysis and calculations for both on-site and off-site drainage system design; preparing construction plans, cost estimates, and specifications; and preparing drainage reports. Duc has experience with many software packages, including HEC-1, HEC-RAS, HY 8, FlowMaster, CulvertMaster, StormCAD, MicroStation, and InRoads.



R. Reece Henry, PLS
Land Surveyor

Education: AAS, Glendale Community College: Civil Drafting, 2001-2002
AAS, Land Surveying, Phoenix College, 2002-2003

Professional Registration: Professional Land Surveyor: AZ, # 49097

Olsson Professional Experience: 2014 to Present

Office Location: Phoenix, AZ

Availability: 20%

Reece joined Olsson's Phoenix office as a survey team leader. Throughout his career he has been providing high quality land surveying services to land owners, contractors, developers, attorneys, utility companies, state and federal agencies in Arizona. His experience includes managing and conducting boundary surveys, topography surveys, ALTA/ACSM land title surveys, subdivision plats construction staking, and preparing legal descriptions. He is proficient using Autodesk Civil 3D 2015 and ESRI ArcGIS 10.2.2 software.



Kim Kleski, PLA, ASLA, LEED AP BC+D
Project Manager/Senior Landscape Architect

Education: Bachelor of Science, Landscape Architecture, Ohio State University, 1995

Professional Registration: Landscape Architect: AZ, #36908

Olsson Professional Experience: 2013 to Present

Office Location: Phoenix, AZ

Availability: 20%

Kim is the Group Leader for the Phoenix Landscape Architecture and Urban Planning team. Kim has 19 years of experience that ranges from schematic design to construction administration. She has been involved in every aspect of a landscape project. Kim's expertise includes contract negotiation, project management, discipline coordination, construction management, preparation

of specifications, and the preparation of construction documents. She has also worked on a large variety of projects with multiple disciplines including master planned communities, luxury resorts, custom residential, large-scale streetscapes, and commercial/retail complexes.



Todd Frederickson
Senior Traffic Engineer

Education: Bachelor of Science, Civil Engineering; University of Nebraska-Lincoln, 2000

Olsson Professional Experience: 2000 to Present

Office Location: Overland Park, KS

Availability: 35%

Todd has experience in the areas of traffic and transportation engineering and Intelligent Transportation Systems (ITS) specifically communication systems planning and design and project management. Project work Todd has completed includes planning and designing field devices for ITS deployments, traffic signal systems and communication designs, developing conceptual geometric layouts, conducting operational capacity analyses of signalized intersections, conducting traffic and safety studies, performing simulation modeling, designing pavement marking and signing, controlling traffic, and designing traffic signals. His computer experience includes Vissim, Synchro, SimTraffic, Highway Capacity Software (HCS), AutoCAD, and MicroStation.



Shane Hennessey, PE
Senior Structural Engineer

Education: Bachelor of Science, Civil Engineering, University of Nebraska - Lincoln, 1996;

Masters of Science, Civil Engineering, University of Nebraska - Lincoln, 1997

Professional Registrations: Professional Civil Engineer, Structural: AZ, #53202

Olsson Professional Experience: 2011 to Present

Office Location: Omaha, NE

Availability: 20%

Shane leads Olsson Associates' Bridge/Structural team. He is a registered professional engineer with over 17 years of structural engineering experience working with a variety of public and private infrastructure related (bridge, railroad, power, telecommunications, precast, and building structures) projects. His engineering duties have involved: investigating and analyzing alternatives, preparing cost estimates, performing structural analysis and design, preparing specifications and contract documents, providing quality control reviews, and providing construction engineering and inspection services. His work has received recognition by a variety of national and local professional organizations.

Shane is also an experienced project manager and has coordinated design team activities on several major infrastructure related public works projects in the US, Canada, and the Middle East. Shane has served as the overall project manager for a joint-venture design team responsible for providing construction engineering services on a \$1 billion segmental bridge in Kuwait City, Kuwait. He was responsible for coordinating resources and design activities from offices in the Czech Republic, Egypt, United Arab Emirates, and the United States.

His project management duties have involved reviewing project legal documents; developing engineering design cost estimates and then determining staffing requirements; developing and enforcing project standards; overseeing controls; approving costs and schedules; developing performance and risk mitigation (Quality Control/Quality Assurance) strategies to ensure effective project execution; and communicating with clients.



Ken Fairchild, PE
Vice President
Senior Electrical/Mechanical Engineer

Education: Bachelor of Science, Electrical Engineering, University of Nebraska-Lincoln, 1972

Professional Registration: Professional Engineer: AZ #34948

Olsson Professional Experience: 1975 to Present

Office Location: Lincoln, NE

Availability: 20%

Ken is a registered electrical and mechanical engineer. He is a team leader and senior designer at Olsson Associates. He has been at Olsson Associates for more than 30 years with responsibilities that include client coordination, quality assurance, project management, contract administration, and post construction evaluation. Ken's relevant experience in specialty lighting includes exterior lighting system designs for urban and suburban recreation facilities with lake sports, roadway, parking, accent, signage, pedestrian and bicycle components.



Ron Szwiec, PE
Project Manager/Senior Civil Engineer

Education: Bachelor of Science, Civil Engineering, Michigan State University, 1991

Professional Registration: Professional Engineer: AZ #33563

Olsson Professional Experience: 2013 to Present

Office Location: Phoenix, AZ

Availability: 20%

Ron is a senior transportation engineer with 23 years of design experience including local intersection improvements to arterial streets, rural highways, interstates and urban freeways. His experience includes management and design of roadway studies and design improvements, concept studies, plan preparation, roadway design, roadway modeling, drainage design, signing and pavement marking designs, right-of-way studies, maintenance of traffic studies, field data collection, specifications, and cost estimates.